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Department of Agriculture.

WM. M. LIGGETT, Dean.

SCHOOL OF AGRICULTURE.

CLASS BULLETIN No. 10.

FARMERS' SPECIAL COURSE.

Our progressive School of Agriculture stands in the same relation to our College of Agriculture that the ordinary high school stands to the ordinary college. It can rightly be called an Agricultural High School. There are between three and four hundred young men and women of the state of Minnesota now enrolled in our regular classes. They are taking the three years' course and many will take the fourth year to complete their preparation for the college course.

This is the course for the young people of Minnesota and they are rapidly learning this fact as shown by the increasing attendance each year.

To enlarge the influence of our Department of Agriculture and to meet the needs of men of mature age, who are busy with the farm the greater portion of the year, a special lecture course has been prepared. This will continue for a term of ten weeks beginning Jan. 2, 1901 and ending in March.

A fee of ten dollars will be charged for this course, and those taking it will not be admitted to the Boarding Department. Room and board may be secured about ten minutes walk from the school or in either of the Twin cities at \$3.50 to \$4.50 per week.

Classes will be called at 8:15 and continue till 11:30 a. m. The afternoon will be devoted to study and investigation.

The following subjects will be discussed:

Agriculture: Judging the qualities of soils, the selection of farms, planning farms; developing the fields, drainage, roads, fences; developing the farmstead and its buildings; managing fields and growing, cultivating, harvesting and preserving forage and grain crops.

Dairy Husbandry: The lectures on feeding and judging dairy stock will be confined to the practical plan of the subjects, the aim being to train the eye to read from the general conformation of the animal its degree of usefulness in the dairy; to give plain instruction in the art of feeding and compounding economical rations adapted for milk production.

Animal Husbandry: The chief of the principles that govern breeding as practiced on the farm are given. The feeding of cattle, sheep and swine summer and winter are discussed. The simpler of the rules that apply to judging animals is given in conjunction with these lectures.

Chemistry: The composition and value of foods and the conservation of soil fertility. The chemical changes which take place during the growth of crops and factors

which influence the food value of agricultural crops are studied. The forms of plant food which exist in the soil, and the power of crops to make use of the various compounds, are important subjects treated.

Farm Mechanics: The instruction in this line will consist of practical talks on the construction, care and management of farm steam engines and boilers, gasoline engines, farm water systems, pumps, windmills, etc.

Some lectures will also be given on sharpening and using hand tools, such as saws, planes, chisels and other tools, necessary in farm practice.

Farm Implements: The principles governing the care and use of farm implements will be given in a course of illustrated lectures. Suggestions on the selection of implements adapted to various kinds of work will be made. So far as possible their adaptability will be demonstrated by tests.

Dressing and Curing Meats: This work will be given in a course of demonstration lectures covering dressing animals for farm use, cutting up the carcasses, curing and smoking meats, making sausages and comparing the use and value of the various cuts of the animals.

Farm Horticulture: Lectures will be given on the care and management of the apple and plum in this climate, including such subjects as location of the orchard; selection of the trees; planting, cultivation, green manuring; preparation for winter; advantages and disadvantages of root-grafting, budding, and top-working; insects and diseases injurious to orchards.

Lectures on the care and management of small fruits will consider the subjects of the selection of varieties, planting and cultivation, origin of new varieties, propagation, marketing, winter protection, also the insects and diseases as related to raspberries, blackberries, currants, gooseberries, strawberries and grapes.



Under vegetable gardening will be considered the growing of potatoes, tomatoes, celery, onions, squash and cucumbers.

Veterinary Science: This work includes a series of lectures on elementary anatomy; animal foods and digestion; and causes, prevention and treatment of common diseases of farm stock. An especial effort is made to have this work practical and helpful to men who are actually handling farm stock.

Economic Zoology and Applied Entomology: In economic zoology native wild animals, birds, reptiles, and fishes will be discussed in regard to their food-habits, so that the injurious, indifferent, and beneficial species may be treated according to their merits.

In applied entomology the numerous injurious species of insects will be described, and methods of dealing with them given. For this purpose the natural and artificial remedies, as the various insecticides, etc., to be used against insect pests, will receive proper attention.

Poultry: A study will be made of the different breeds of fowls with reference to their adaptability to egg and meat production; the planning of poultry houses and yards; management of incubators and brooders; breeding, feeding and general management of the farm flock.

These lectures will be of great value and will be confined to the outlines given. There will be no opportunity for shop work in blacksmithing, carpentering, or engineering.

Students who should attend the School of Agriculture will not be admitted. Only farmers of mature age who have passed the days of student life should apply. It is for them that this door of opportunity is swinging open.

Farmers wishing to register for this course or desiring further information, should write to

WM. M. LIGGETT,

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